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Sensors and Simulation Symposium and Exhibition
- *Software and Information Technology* -

The Electronic Documentation Distribution System (EDDS)

Presented by
Douglas Reichl

NAVY AIRCRAFT SYSTEMS DIVISION
Aircraft Division



Web Applications in Making Information Work for the Warfighter



Information
Highway
Super

Electronic
Documentation
Distribution
System

Aircraft
Emergency
Repair
Instruction



Electronic Documentation Distribution System

- WHAT?
- WHY?
- HOW?



EDDS Functional Overview

Document
Source
Agent

Emergency
Repair
Instruction

User



Internet

Internet

Repository

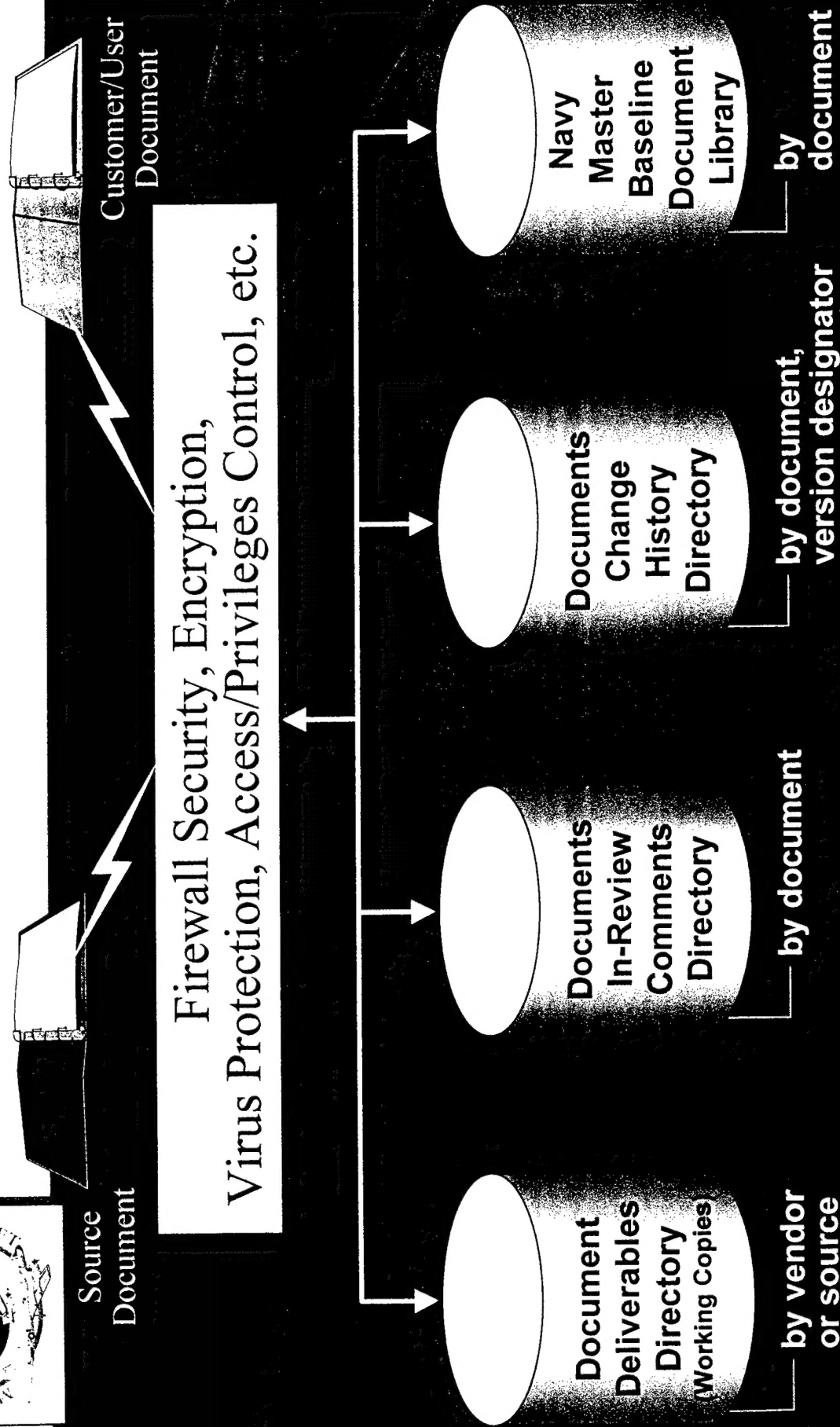
Quality
Assurance

Engineering

Configuration
Management



EDDS Database Structure





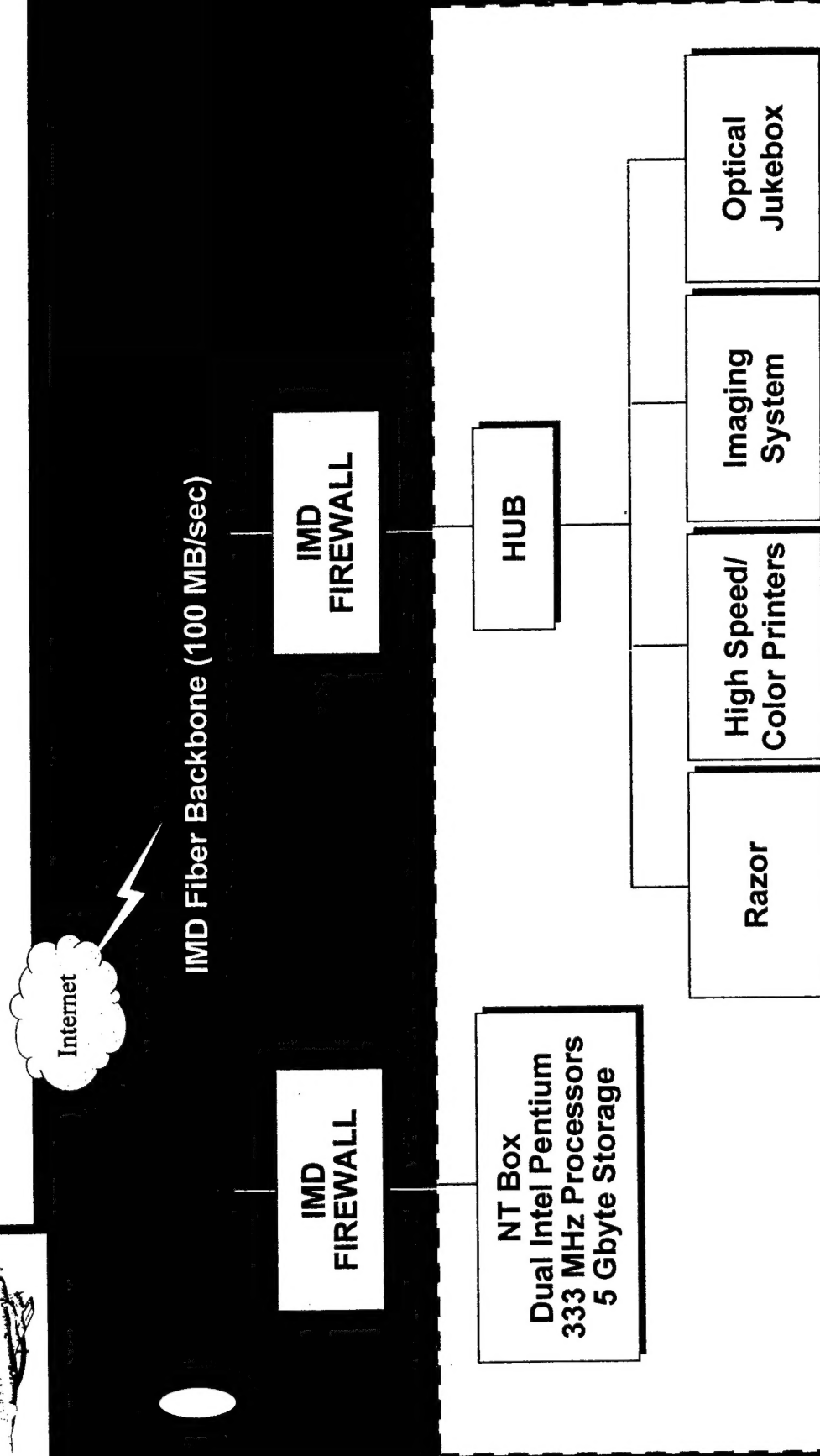
EDDS Access/Privileges Control Across Database Directories/Subdirectories

Position	Sources Own Deliverables Subdirectory Only			All Deliverables Subdirectories			Documents Master Baseline			Documents Comments*			Documents Change History		
	Read	Write	Delete	Read	Write	Delete	Read	Write	Delete	Read	Write	Delete	Read	Write	Delete
Vendors	X	X					X			X	X		X		
NAWC Project Team	X	X					X			X	X		X		
SPF Staff				X			X			X			X		
CM/DM				X	X	X	X	X	X	X	X	X	X	X	X
Customers/Users							X					X			

* Reviewers/Users cannot overwrite existing files in "Comments"



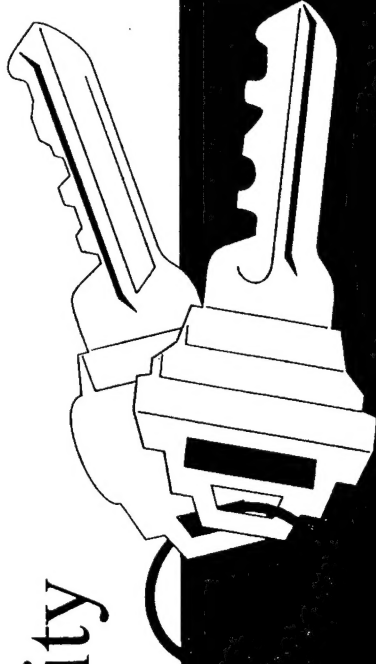
EDDS System Block Diagram



EDDS Repository Environment



Security



DES Modes
of Operations

NIST Federal Information Processing
Standards on Computer Security

FIPS 113: Computer Data Authentication

Cryptographic Module Validation (CMV)

FIPS 140-1: Security Requirements
for Cryptographic Modules

DSA/SHA-1 or SHA-1 Implementation

FIPS 46-2: Data Encryption
Standard (DES)

FIPS 185: Escrowed
Encryption Standard (EES)

ANSI X9.17: Key Management

FIPS 46-2 and 81: Data Encryption Standard
(DES) and DES Modes of Operation

SKIPJACK Algorithm

Cryptographic Modules Testing (CMT)

FIPS 180-1: Secure Hash
Standard (SHS)

FIPS 186-1: Digital
Signature Standard

DSA and SHA-1 Validation List

ANSI X9.31: RSA Digital
Signature Algorithm



In-Process Enhancements to Internet Capabilities and Performance



Teledesic Broadband Satellite

“Internet-in-the-Sky”

- Commercial Satellite Worldwide Network
- Global coverage serving mobile terminals
- Extending Capabilities of the Net
 - Beyond just text and graphics
 - High quality voice and video
- Higher Bandwidth and Reduced Latency



Making Information Work for the Warfighter



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Emergency repair manuals
on the Web.